

ABSTRACT OF THE DISCLOSURE

A hydrogen-storage material includes a plurality of carbon carriers made of a carbon material having an electric conductivity, and a plurality of fine particles carried on each of the carbon carriers and having a hydrogen-adsorbing ability. The amount A of fine particles carried is in a range of 0.1 % by weight  $\leq A \leq 20$  % by weight. The fine particles are at least one selected from fine particles of a metal, fine particles of an alloy and fine particles of an oxide semiconductor. For example, the alloy corresponds to an alloy made of at least one selected from the group consisting of Mg, Ti, a rare earth element, Zr, V, Ca and Al, and at least one selected from the group consisting of Fe, Co, Ni, Cu, Mn, Mo and W. Thus, the hydrogen-storage material is relatively light; has a high hydrogen-storing ability at ambient temperature and under a lower hydrogen pressure; and moreover, exhibits hydrogen-absorbing/releasing rates.

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